

RUSSELL G. CLOUGH
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EDUCATION AND PROFESSIONAL

BSCE 1964 and MSCE 1965 from Stanford University; Contractor's License in Calif., Oregon, and Utah; Registered Civil Engineer in Calif., W.Va., and Hawaii; Registered Geotechnical and Safety Engr. in Calif.; Certified Blaster, Tunnel Safety Rep, MSHA Rescue Team Leader, AGC Negotiating Committee, UTRC, ASCE life member.

WORK EXPERIENCE

Stanford University <http://cem.stanford.edu/faculty/index.html> January 1994 to Present
Consulting professor in Civil Engineering. Teach classes in engineering design, estimating, dispute resolution, and construction cases. During this period have continued consulting work, arbitration, and served on more than 40 Dispute Review Boards. Consultant and lecturer to the Chinese Ministry of Water Resources in 1997-1998.

Russell G. Clough Co. August 1979 to May 1994
Owner of a contracting, consulting, and engineering company. Designed and built wine caves & civil tunnels. Contracted estimating, management, and equipment for Torno as a VP-Operations on a tunnel and two dam contracts, a Project Manager for Obayashi on two waste water projects, and a Manager for various contractors on other projects. These jobs included hydro re-fits, soft ground tunnels using EPB machines, Lovat TBM's, shields, hard rock tunnels using explosives and roadheader methods, open cut excavations, shoring, dewatering, concrete structures, bridges, buildings, etc.

Gordon H. Ball, Inc. June 1968 to July 1979
Laborer, field engineer, project engineer, and project manager on eight projects including dams, highways, buildings, structures, tunnels, and shafts. Four of these projects were dam contracts for the Corps or Bureau including underground work, foundation excavations, dirt and rock embankments, and concrete structures. Worked in the home office estimating heavy construction projects for several years.

Various Contractors & Engineering Companies June 1961 to June 1968
Worked on nine tunnel, dam, and structures projects as a laborer, foreman, and engineer including a number of difficult dams and tunnels in the Coast Ranges of California which required breast boarding and various methods to handle hazardous and gassy conditions. Worked for a consulting engineering company for two years.

U.S. Marine Corps, U.S. Forest Service June 1959 to September 1960
Six months active and then reserve duty in the airborne infantry. Surveying forest roads.

GENERAL EXPERIENCE

Have visited over 400 projects in Japan, China, Korea, Canada, Italy, England, Germany, Belgium, Sweden, Norway, Austria, Switzerland, Australia, Guatemala, Mexico, and the U.S. Director of several organizations.

PERSONAL HISTORY

Birthdate: December 25, 1941. Height and weight: 6 feet, 170 pounds. Married with one grown son. Father was a mining and construction engineer.

Russell Clough DRB and Mediation List

#	Project	Owner	Contractor	Contract \$ (Million)	Appt. by Owner	Chair	Appt. by Contr	Dates	Type of Work
1	First Ave Bridge	Seattle Metro	Coluccio	8		X		4/95 to 8/96	Two frozen shafts and 1,500 feet of tunnel using pipe jacking and Iseki TBM for sewer relocation.
2	Scioto Wastewater Interceptor	City of Columbus, Ohio	McNally	19			X	10/95 to 10/98	Several shafts, 7,000 feet of TBM tunnel for sewer.
3	Alki Wastewater Transfer	King County Seattle	McNally	25			X	11/95 to 6/96	10,000 feet of EPB tunnel with two shafts. Very soft ground and high water table.
4	Universal City Station	Los Angeles Transit Authority	Tutor-Saliba	80		X		6/96 to 6/00	Rapid Transit Station. Deep exc-soldier pile/tie backs, concrete structure, finish mech-elect work.
5	Portland Light Rail	Tri-County	Kajima	35	X			8/96 to 5/97	Light rail rapid transit system.
6	Congress Heights Subway	Washington DC Transit Authority	Kiewit-Kenny	60	X			4/97 to 3/99	Washington, DC rapid transit system. Soft ground twin bore TBM tunnel and associated work.
7	Contract 4 Wastewater System	Wayne County Detroit	Ric-Man Const, Inc.	16		X		3/98 to 12/01	Three miles of 10 foot diameter TBM tunnel, several shafts for municipal wastewater system
8	Orinda Wastewater System	Contra Costa County	Mountain Cascade	9			X	3/98 to 4/99	Two miles of 3 to 4 foot diameter microtunnel, numerous shafts, open cut, etc.
9	Highway 17 Slide Repair	Caltrans San Jose	Granite	3		X		11/98 to 9/99	Excavation, soil nail wall, and slide repair on state highway 17.

#	Project	Owner	Contractor	Contract \$ (Million)	Appt. by Owner	Chair	Appt. by Contr	Dates	Type of Work
13	I 80 Highway Bridge	Caltrans Davis	RM Harris	13			X	6/99 to 10/01	Interstate 80 bridge and overpass
14	Rinconada Treatment Plant	Santa Clara Water Dist.	Pacific Mechanical	7		X		12/99 to 7/03	Water treatment plant
15	Penitencia Treatment Plant	Santa Clara Water Dist.	Pacific Mechanical	17		X		4/00 to 7/03	Water treatment plant
16	Universal City Bridge	LA Transit Authority & Caltrans	Brutoco, Inc.	30	X			6/00 to 6/02	Bridge over Hollywood Freeway (101) and restoration work
17	Denny Way CSO Project	King County Seattle	Coluccio Const. Co.	30		X		2/01 to 9/02	15 ft. diameter EPB tunnel, several shafts, and smaller tunnels
18	Highway 108 Bypass	Caltrans Sonora	Goodfellow Const.	41		X		1/02 to 11/05	Calif. State freeway bypass and bridges
19	Olivenhain Dam	San Diego County	Kiewit	150		X		7/02 to 12/03	Roller Compacted Concrete Dam and ancillary works
20	South Lake Union Pipe	King County Seattle	Coluccio Const. Co.	11		X		9/02 to 5/04	Combined sewer outflow pipelines and structures - microtunneling and EPB
21	Reno Rail Corridor	City of Reno	Granite - Parsons	180			X	6/03 to 6/06	Design Build Project to depress railroad in subgrade structures through Reno
22	San Jose Flood Channel	Santa Clara Water Dist.	RGW	11		X		8/03 to 7/06	Flood control channel excavation and structures

25	Hwy 101/85 Interchange	Calttrans San Jose	Pavex	20		X	8/04 to 3/05	Widen freeway, bridges, etc.
26	New Natomas Pump Station	Sacramento Sanitary District	Kiewit	100	X		10/04 to 8/06	Underground pump station and surface facilities.
27	Calif. State Highway 22	Orange County Transit	Granite	460		X	4/05 to 4/08	Design build freeway in Southern California
28	Bradshaw Waste Water Line	Sacramento Sanitary District	Affholder	21	X		4/05 to 11/05	Wastewater EPB tunnel and facilities
29	Laguna Interceptor	Sacramento Sanitary District	Teichert	15	X		5/05 to 10/07	Wastewater pipeline, EPB tunnel, and facilities in Elk Grove
30	Highway 87 Widening	Calttrans San Jose Hwy 87	RGW	44		X	6/05 to 5/07	Widen freeway, bridges, etc.
31	Los Angeles Light Rail	MTA	Washington, Shimmick, Obayashi	898	X		9/05 to 9/08	At grade, stations, and underground design build rapid transit. EPB tunnel
32	Hwy 280 Widening - Upgrade	Calttrans San Jose Hwy 280	RGW	16		X	8/06 to 10/07	Widen freeway, bridges, etc.
33	Hetch Hetchy Upgrade	San Francisco PUC	Ranger Pipeline	20	X		11/06 to 7/07	Water structures and upgrades across Hayward fault
34	Ellis Ave Sewer	Orange County San District	Barnard Soletanch	32	X		11/06 to 3/08	Wastewater structures and EPB tunnel
35	Brightwater Central	King County WA	Parson Frontier	220		X	4/07 to	Design Build Wastewater structures and Slurry TBM tunnel under high head.

38	Hwy 152 Truck Lane Upgrade	Caltrans Hollister Hwy 152	RGW	11	X	9/07 to 6/08	Soil nail and retaining walls, truck lanes, etc.
39	Lenihan Dam	Santa Clara Water Dist.	Flatiron	35	X	11/07 to	Upgrade diversion works for dam including 2,000 foot tunnel.
40	Brightwater West	King CountyWA	JayDee, Coluccio, Taisei	250	X	12/07 to	Design Build Wastewater structures and Slurry TBM tunnel under high head.
41	Alemany Pump Station	San Francisco PUC	Monterrey Mechanical	30	X	3/08 to	Cleanwater Pump Station
42	Bujagali Dam	World Bank, Uganda, Sithe Global	Salini	400	X	4/08 to	250 MW hydroelectric project, rock & concrete dam on Nile River in Uganda
43	Seven Trees Center Library	City of San Jose	Gonsalves & Stronck Co.	26	X	6/08 to	City center and library building
44	Harry Tracy Water Plant	San Francisco PUC	NTK Const. Inc.	14	X	9/08 to	144 MGD Water Trt Plt Upgrade
45	Channel Pump Station	San Francisco PUC	Monterrey Mechanical	15	X	11/08 to	Pump, odor control, and injection system improvements, etc.

46

\$4,237	13	22	10
Total \$	Appt.		Appt.
Contract	by	Chair	by
(Million)	Owner		Contr

Arbitrations and Mediations - Russell Clough

Various	Various	Various	6/65 to 12/94	Negotiations as engineer or contractor with unions, etc.
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South Interceptor Sewer	King County Seattle	Tri-State Constructio n	28
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12/02 to 1/03	Mediator for \$3MM dispute regarding changed conditions, etc.
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